11/5/1 (Item 1 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)

0013535270 **E.I. COMPENDEX No:** 1996082978548
Computer-telephone integration goes global

Foster, Robin Harris
Corresp. Author/Affil: Foster, Robin Harris: AT&T Bell Lab
AT&T technology (AT&T Technol) 1995 10/3 (18-22)
Publication Date: 19951201
Publisher: AT&T
CODEN: ATTTE **ISSN:** 0889-8979
Document Type: Article; Journal **Record Type:** Abstract
Treatment: T; (Theoretical)
Language: English **Summary Language:** English
AT&T brings global businesses the benefits of computer-telephone integration (CTI) with a pair of PassageWay services on the AT&T DEFINITY telecommunications systems. Desktops become multimedia environments for computing and communications, enabling companies to streamline call center and other business operations. One of the pair, The PassageWay Telephony Services, is a switch-oriented CTI application that controls calls through the DEFINITY system. The second one, PassageWay Direct Connection, is a phone-oriented CTI application that makes telephony functions accessible to desktop computing applications.
Descriptors: Computer networks; **Computer** software; Data handling; Digital control systems; **Interfaces** (**computer**); Long **distance** telephone systems; Network protocols; Security systems; Telecommunication **links**; Telecommunication services; *Voice/data communication systems
Identifiers: Adjunct/**switch** application **interface**; Call-center agents; Call-handling; Computer-telephone integration; Digital communications protocol
Classification Codes:
718.1 (Telephone Systems & Equipment)
722.2 (Computer Peripheral Equipment)
723.2 (Data Processing)
731.1 (Control Systems)
914.1 (Accidents & Accident Prevention)

11/5/2 (Item 1 from file: 2)
DIALOG(R)File 2: INSPEC

05059336
Title: Calling all LANs: ISDN for LAN interconnect
Author(s): Saunders, S.; Gronert, E.
Journal: Data Communications International , vol.20 , no.15 , pp.90-6
Country of Publication: USA
Publication Date: Nov. 1991
ISSN: 0363-6399
Language: English
Document Type: Journal Paper (JP)
Treatment: Application (A); Practical (P)
Abstract: Users looking to connect LANs over ISDN face two major obstacles. First, only a handful of European countries have full-scale commercial ISDN. Second, most large vendors of bridges and **routers** have yet to implement ISDN **interfaces**. Many other vendors have brought out interim solutions, mainly in the form of PC-based ISDN interface cards. These products, the features of which are outlined in a table, **range** from low-end manually operated **devices** to an IP router with a throughput of 2.048 Mbit/s (*0 refs.*)
Subfile(s): B (Electrical & Electronic Engineering); C (Computing & Control Engineering)
Descriptors: add-on boards; **computer interfaces**; inter- **computer links**; ISDN; local area networks; microcomputer applications
Identifiers: PC cards; LAN; **bridges**; **routers**; ISDN **interfaces**; vendors; throughput; 2.048 Mbit/s
Classification Codes: B6210L (Computer communications); B6210M (ISDN); C5620L (Local area networks); C5610N (Network interfaces)
Numerical Indexing: bit rate: 2.048E+06 bit/s
INSPEC Update Issue: 1992-006

04519742
Title: FDDI: what will it cost? [Fibre Distributed Data Interface]
Author(s): Head, J.
Journal: Fiber Optics Magazine , vol.11 , no.3 , pp.21-3
Country of Publication: USA
Publication Date: May-June 1989
Language: English
Document Type: Journal Paper (JP)
Treatment: Economic (E)

Abstract: From a pricing perspective, FDDI is not a single product, but a faster interface to a whole range of products. Just as Ethernet transceivers, repeaters, bridges, routers and **terminal servers** all are Ethernet, but **range** from $200 to $20000, there will be FDDI PC **interfaces**, FDDI **routers**, FDDI file servers, and hosts with FDDI interfaces. Each will be priced in ranges similar to their Ethernet/Token Ring counterparts, but with a new FDDI interface. And like their Ethernet predecessors, FDDI equipment prices will vary dramatically due to vendor markups and relative performance in each category, such as servers, PC **interfaces**, and **routers**, for example. The expected price trends of two of the higher volume FDDI products are discussed. They are: FDDI interfaces for PCs and high performance workstations; and Ethernet and Token Ring routed over an FDDI backbone (*0 refs.*)
Subfile(s): B (Electrical & Electronic Engineering); C (Computing & Control Engineering); E (Mechanical & Production Engineering)
Descriptors: **computer interfaces**; economics; local area networks; optical fibres; optical **links**; standards
Identifiers: standards; FDDI PC **interfaces**; FDDI **routers**; FDDI file servers; FDDI **interfaces**; FDDI equipment prices; workstations; Ethernet; Token Ring
Classification Codes: B6210L (Computer communications); B6260 (Optical communication); B4125 (Fibre optics); B0140 (Administration and management); C5620L (Local area networks); C5610N (Network interfaces); E0120K (Financial management); E3644N (Optoelectronics manufacturing)
INSPEC Update Issue: 1990-002

04187095
Title: Alternative access methods for the IBM family of personal computers and true compatibles
Author(s): Dolman, L.; Meeks, S.
Author Affiliation: DADA Designing Aids for Disabled Adults, Toronto, Ont., Canada
Inclusive Page Numbers: 678-9
Publisher: RESNA - Assoc. Adv. Rehabilitation Technol, Washington, DC
Country of Publication: USA
Publication Date: 1987
Conference Title: RESNA '87: Meeting the Challenge. Proceedings of the 10th Annual Conference on Rehabilitation Technology
Conference Date: 19-23 June 1987
Conference Location: San Jose, CA, USA
Editor(s): Steele, R.D. Gerrey, W.

Number of Pages: xii+894
Language: English
Document Type: Conference Paper (PA)
Treatment: Practical (P)
Abstract: The PC AID and PC Serial AID are examples of recent developments in accessing alternatives for IBM personal computers (PC/XT/AT and Jr) and true compatibles. These two **devices** provide a **range** of alternative input methods, including one-finger typist keyboard mode, regular, step and inverse scanning methods, single and dual switch Morse Code and **connection** of alternative (expanded) keyboards. The **PC** AID **connects** to the printer **port** of the **computer**, and provides all switch input methods. The PC Serial AID provides switch input methods, and also allows the use of alternate (expanded) keyboards. Both allow the standard keyboard to be used in one-finger typist mode. Transparent, memory-resident software drives the devices and provides the user with help screens of features and commands, which can be called up within application programs using any input method. The software also allows key re-definition, variations in scan line position and width, and the ability to change device parameters from any input method. Utility programs provided with the devices allow users to customize the software for their specific needs by individualizing scan arrays, modifying the Morse Code assignments, editing key re-definitions and configuring alternative keyboard layouts (*0 refs.*)
Subfile(s): C (Computing & Control Engineering)
Descriptors: digital simulation; handicapped aids; IBM compatible machines; IBM computers; keyboards
Identifiers: alternative access methods; transparent software; utility programs; IBM family of personal computers; true compatibles; PC AID; PC Serial AID; PC/XT/AT; Jr; alternative input methods; one-finger typist keyboard mode; regular; step; inverse scanning methods; single; dual **switch** Morse Code; printer **port**; memory-resident software; help screens; key re-definition; scan line position; width; device parameters; scan arrays; keyboard layouts
Classification Codes: C5540B (Interactive-input devices); C7890 (Other special applications of computing)
INSPEC Update Issue: 1988-017

11/5/5 (Item 4 from file: 2)
DIALOG(R)File 2: INSPEC

03206978
Title: The E10-MULTISERVICE system and its use in the PERISAT network
Author(s): Maillard, J.F.; Rouillard, G.
Author Affiliation: CIT-Alcatel, Paris, France

Journal: Commutation & Transmission , vol.5 , no.4 , pp.93-108
Country of Publication: France
Publication Date: Dec. 1983
ISSN: 0242-1283
CODEN: COTNDL
Language: English
Document Type: Journal Paper (JP)
Treatment: Practical (P)
Abstract: Presents the E10 MULTISERVICE, developed by CIT-Alcatel as a version of its E10.S digital switching system. The E10-MULTISERVICE **connects** PABXs and data communications **equipment** with a broad **range** of **interfaces** and bit rates. Organized around circuit switches and concentrators, managed from a central operation and maintenance center, the system can establish transparent digital paths for communication at speeds up to 2Mbit/s. After outlining the services provided by the E10-MULTISERVICE system and the types of customer connection, the authors describe the three sorts of center in the system: central switches, connection units, and the operation and maintenance center. They then discuss the first use of the system, in the PERISAT network. This network is being installed by French Telecom for large-scale testing under real operational conditions of various aspects of the Telecom 1 satellite-based network, within which the PERISAT network will be integrated (*5 refs.*)
Subfile(s): B (Electrical & Electronic Engineering)
Descriptors: communication networks; digital communication systems; electronic switching systems; private telephone exchanges
Identifiers: E10; MULTISERVICE system; PERISAT network; CIT-Alcatel; E10.S digital switching system; PABX; data communications equipment; **interfaces**; bit rates; circuit **switches**; concentrators; transparent digital paths; 2Mbit/s; French Telecom; large-scale testing; satellite-based network
Classification Codes: B6210 (Telecommunication applications); B6230B (Electronic switching systems and exchanges); B6230F (Integrated switching and transmission systems)
INSPEC Update Issue: 1984-004

2975026 **H.W. Wilson Record Number:** BAST00052655
Keyspan 4-port USB Hub

Poptronics v. 1 no8 (August 2000) p. 16
ISSN: 1526-3681 **Language:** English **Record Status:** Corrected or revised record

Abstract: The Keyspan 4-part USB Hub ($39) is an affordable little **device** that allows users to **connect** a **range** of **peripherals** to the Universal Serial Bus **jack** on a new PC or Mac. The hub is extremely easy to install and can be cascaded to give a total of 13 USB ports. In addition, most of the occasional problems the hub experiences can be fixed by disconnecting it from its power source momentarily.

Descriptors: Plug and play devices; USB (Transmission lines) ;

00418876
Identifying No.: 0082503 **Agency Code:** NSF
Protocols for Open Access Wireless Deployment

Principal Investigator: Clark, David D
Performing Org.: Massachusetts Institute of Technology, Laboratory for Computer Science , Cambridge , MA 02139
Project Monitor: Fisher, Darleen L.
Sponsoring Org.: National Science Foundation, ANI , 4201 Wilson Boulevard , Arlington , Virginia 22230

Dates: 20001001 **To** 20030930 **Fy :** 2000 **Funds:** $2,811,508 (2000000)
Summary: The purpose of this project is to demonstrate a new paradigm for wireless network services. The motivations for this project are the f ollowing: (1) Today, wireless service is either local to an institution (as in wireless LANs) or is provided as part of a regional or national service (as in cellular). But there could be other models. Individual providers of wireless service could put up a base station and o er service locally. Users could move among these providers and select a service based on requirements and prices. Just as we have over 5000 wireline Internet service providers today, many only serving a small area, we could have wireless coverage built bottom up. (2)Today, we see a restricted **range** of wireless **devices** - a laptop **PC** with a wireless card, a cell phone augmented with data capabilities, a highly integrated device such as a pager. There is not an open market for new wide-area wireless devices, because such devices today are tightly bound, both technically and through service contract, to a particular wireless service provider. But there could be a wide **range** of new consumer **devices** if the proper interfaces and modules were available. For this to work, two things are necessary. First, each of the broad mix of competing wireless services must be accessible to a wide variety of devices. What is needed is an overall system architecture that allows cheap, small, low-power consumer-level objects to access a wide variety of technically incompatible wireless services with ease, using open interfaces. Second, selection of a service among competing alternatives must be easy. For example, a manual process of selection and entry of a credit card would be too burdensome to succeed. What is needed is a model for automated dynamic negotiation, based on rules provided by the users and providers,

together with a workable economic model and a simple micro-payment scheme. The goal of this research is to demonstrate two related innovations. The irst is a framework for automated negotiation for access to wireless services. The second is a small hardware device that the user can carry, a personal router, which contains the necessary wireless transceivers, implements the access negotiation protocol, and provides a network connection for the other devices and appliances that a person might choose to carry. By creation of an open **interface** between this personal **router** and other devices a user might carry, an environment can be created for the development of new devices and applications. The intellectual merit of this project is embodied in: a) the automated service negotiation framework, b) experience with systems that use policy constraints to guide automatic configuration; c) the related protocols for security and billing; d) the demonstration of the new application user **interface** paradigms implied by the personal **router**; and e) identification and definition of the **interfaces** between this **device** and the other consumer **devices** that can be **connected** to the Internet using it. The broader impacts are the possibility of creating a new market model or wireless service, based on small business investment and local competition, rather than service provision (only) by large, national-level corporations, and the development of an increased understanding of user pricing preference for communication services. Research that explores technology supporting alternative economic models is not likely to be done in

0000921449 IP Accession No: 201001-90-0111493

Short-Haul Modem: Modem Device Extends Reach of Serial Port to 10 Kilometers

Satchell, Steve
InfoWorld , v 9 , n 3 , p 53-55 , 19 Jan. 1987
Publication Date: 1987
Publisher: InfoWorld Media Group , 501 Second Street , San Francisco , CA , 94107
Country Of Publication: USA
Publisher Url: http://www.infoworld.com
Publisher Email: customerservicenfoworld.com

Document Type: Journal Article
Record Type: Abstract
Language: English
ISSN: 0199-6649
File Segment: Computer & Information Systems Abstracts

Abstract:
Telebyte Technology Inc.'s (Greenlawn, New York) Model 86 Power-Stealing, Short-

Haul Modem allows connection of widely separated terminals, modems, and other serial devices. The Model 86 and other Telebyte modems let the user use either coaxial cable, twisted-pair, or cords with standard telephone connectors between pairs of modems. Modems may be ordered with either female of male DB-25 RS-232 connections. A **switch** permits the Model 86 to **interface** to either modems or **terminals**. The modems are designed to **connect** 2 **devices** for up to one kilometer at 9,600 bps full duplex, or for 10 kilometers at 1,200 bps. The modem takes its power from the RS-232 connection. The modems performed satisfactory over a line of significant length. No documentation was provided with samples of the modems. Telebyte offers a blanket one-year repair or replacement warranty. The product solves the problem of extending the **distance** between a **terminal** and one or 2 computers.

Descriptors: Modems; Devices; Terminals; Joints; Serials; Connectors; Computer simulation; Warranties
Subj Catg: 90, Computing Milieux (General)

1209893504 **E.I. COMPENDEX No:** 20090511888204

Results of 1 GBPS aircraft to ground lasercom validation demonstration

Issue Title: Free-Space Laser Communication Technologies IX
Chan, Victor J.; Arnold, Robert L.
Corresp. Author/Affil: Chan, V. J.: ThermoTrex Corporation, 10455 Pacific Center Court, San Diego, CA 92121, United States
Conference Title: Free-Space Laser Communication Technologies IX
Conference Location: San Jose, CA United States **Conference Date:** 19970213-19970213
E.I. Conference No.: 75182
Proceedings of SPIE - The International Society for Optical Engineering (Proc SPIE Int Soc Opt Eng) (United States) 1997 2990/- (52-59)
Publication Date: 19971201
Publisher: SPIE
CODEN: PSISD **ISSN:** 0277-786X
Item Identifier (DOI): 10.1117/12.273709
Document Type: Conference Paper; Conference Proceeding **Record Type:** Abstract
Language: English **Summary Language:** English
Number of References: 3

Laser communications between high flying aircraft such as high altitude Unmanned Aerial Vehicles and between the aircraft and the ground offers the potential to transfer extremely high amounts of information faster and with a smaller package than is currently possible with a radio frequency and microwave technologies. Over the last few years, BMDO has funded a number of technology efforts through the US Army Space and Strategic Defense Command (SSDC) reducing the risks associated with laser communications. One of these efforts, at ThermoTrex Corporation in San Diego, California, is now being carried forward towards an Advanced Technology Demonstration. In 1996, BMDO and SSDC have supported an effort to demonstrate operation of the lasercom system on the Boeing Airborne Surveillance **Testbed** aircraft by establishing a long **range link** to another lasercom **terminal** on the ground. **Link** acquisition utilizes **interfaces** to global positioning systems, an inertial navigation **unit** for initial pointing and atomic line filter technology for background light rejection. We present the development of the acquisition scenario algorithms and results of the experiment performed on December 4, 1996, with the aircraft circling ThermoTrex in San Diego. This first test had the aircraft at a range of 20 to 30 km, at an altitude of 38,000 feet. (c)2004 Copyright SPIE - The International Society for Optical Engineering.
Descriptors: Aircraft; Atomic physics; Atoms; Communication; Lasers; Mergers and acquisitions; Microwave devices; Navigation; Navigation systems; Power control; Remotely operated vehicles; Technology; Technology transfer; Unmanned aerial vehicles

(UAV); Unmanned vehicles; *Optical links
Identifiers: Advanced Technology Demonstration (ATD); Airborne laser communications; Airborne Surveillance; Atomic line filter; Background light; Filter technology; Flying aircraft; High altitudes; High data rate laser communications; Lasercom; Long range laser communications; Radio frequency (rf); San Diego; San Diego , California; Test beds; Unmanned aerial vehicles (UAVs); US Army (CO)
Classification Codes:
731.3 (Specific Variables Control)
731.5 (Robotics)
741.3 (Optical Devices & Systems)
744.1 (Lasers, General)
717.1 (Optical Communication Systems)
911.2 (Industrial Economics)
931.3 (Atomic & Molecular Physics)
901.4 (Impact of Technology on Society)
716.3 (Radio Systems & Equipment)
434.4 (Waterway Navigation)
652.1 (Aircraft, General)
431.5 (Air Navigation & Traffic Control)
655.1 (Spacecraft, General)
674.1 (Small Marine Craft)
901 (Engineering Profession)
912 (Industrial Engineering & Management)
472 (Ocean Engineering)
652 (Aircraft)
714 (Electronic Components & Tubes)
715 (Electronic Equipment, General Purpose & Industrial)
716 (Electronic Equipment, Radar, Radio & Television)

0014344828 **E.I. COMPENDEX No:** 1999314700644
ASOC - a manufacturing integrated optics technology

Asghari, Mehdi; Dawnay, Emma J.C.
Corresp. Author/Affil: Asghari, Mehdi: Bookham Technology Ltd, Oxfordshire, United Kingdom
Conference Title: Proceedings of the 1999 Integrated Optics Devices III
Conference Location: San Jose, CA, USA **Conference Date:** 19990125-19990127
Sponsor: SPIE
E.I. Conference No.: 55077

Proceedings of SPIE - The International Society for Optical Engineering (Proc SPIE Int Soc Opt Eng) 1999 3620/- (252-262)
Publication Date: 19990101
Publisher: Society of Photo-Optical Instrumentation Engineers
CODEN: PSISD **ISSN:** 0277-786X
Document Type: Article; Conference Proceeding **Record Type:** Abstract
Treatment: A; (Applications); G; (General review)
Language: English **Summary Language:** English
Number of References: 12
ASOC technology refers to the fabrication of integrated optics components in silicon-on-insulator material. The technology is based on the formation of single-mode rib waveguides offering excellent properties and numerous advantages for many applications at 1.3 and 1.55 mum wavelength. The advantages offered by ASOC technology include low-loss, low birefringence waveguides, well established mass production capability, and the availability of both hybrid and monolithic techniques for active element integration. The overall enabling technology lies in the successful development of a set of waveguide-based functional elements that can be assembled into practical integrated optics **devices**. The most fundamental waveguide **elements** include straight waveguides, bends, **couplers** and fibre-waveguide **interfaces**. Additional **elements** such as doped structures and waveguide gratings are often required. Discrete lasers and photo-**detectors** are also incorporated into ASOC technology to provide hybrid **devices** with a wide **range** of functionality. The technology is currently employed to manufacture devices for a range of applications in telecommunications. These include a single-fibre bi-directional optical transceiver, a DWDM laser and an optical attenuator.
Descriptors: Birefringence; Diffraction gratings; Integrated optoelectronics; Lasers; Optical communication; Optical waveguides; Photodetectors; Silicon on insulator technology; Transceivers; Waveguide attenuators; Waveguide couplers; Wavelength division multiplexing; *Integrated optics
Identifiers: Bends; Dense wavelength division multiplexing; Fiber waveguide interfaces; Optical transceiver; Silicon integrated optics; Straight waveguides; Waveguide gratings; Wavelength attenuators
Classification Codes:
714.2 (Semiconductor Devices & Integrated Circuits)
714.3 (Waveguides)
717.1 (Optical Communication Systems)
741.1 (Light & Optics)
741.3 (Optical Devices & Systems)
744.1 (Lasers, General)

0010002784 **E.I. COMPENDEX No:** 1970010013650
SMALL COMPUTERS FOR TELECOMMUNICATION INSTALLATIONS,

PETITS CALCULATEURS POUR LES INSTALLATIONS DE TELECOMMUNICATIONS
DIGGELMANN H
Corresp. Author/Affil: DIGGELMANN H
Technische Mitteilunge PTT 1969 47/6 (259-263)
Publication Date: 19691201
Document Type: Journal **Record Type:** Abstract
Language: French **Summary Language:** English
Program-controlled information- processing requires a reliable **calculating unit**, having a wide **range** of instructions, and capable of operating on single bits as well as multidigit numbers. Small **computer** ('%'ELSTOR'%') is described, which contains calculating and storage sections and **interfaces** for **connecting** to telephone or radio **links**.
Descriptors: COMPUTER APPLICATIONS; RADIO COMMUNICATION

18/5/4 (Item 4 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)

06458887 **E.I. COMPENDEX No:** 19660053747
Fuel gases for flame hardening

Corbett, G.M.
Welding Journal v 44 n 10 Oct 1965 (New York, NY United States), p 476s-480
Publication Year: 1965
Document Type: JA; (Journal Article)
Language: English
Three industrial fuel gases -- acetylene, propane and stabilized methylacetylene propadiene -- are **evaluated** for selective flame hardening operations of iron and steel **components**; effects of **coupling distance**, oxygen-to-fuel ratio, heating time and flame **port** velocity on flame hardening efficiency; graphs are presented showing effect of **coupling** distance and oxygen-to-fuel ratio on depth of hardness, gas consumption for given heating time and depth of hardness, and depth of hardness obtained at differing flame port velocities.
Descriptors: *Steel heat treatment; Flame hardening

18/5/5 (Item 1 from file: 35)
DIALOG(R)File 35: Dissertation Abs Online

01363431 ORDER NO: AAD94-18817

FUNDAMENTAL AND APPLIED INVESTIGATIONS IN ATOMIC SPECTROMETRIC ANALYSIS (INTERFERENCE, MATRIX INTERFERENCE)

Author: WU, MIN
Degree: PH.D.
Year: 1993
Corporate Source/Institution: INDIANA UNIVERSITY (0093)
Chair: GARY HIEFTJE
Source: Volume 5502B of Dissertations Abstracts International.
PAGE 399 . 371 PAGES
Descriptors: CHEMISTRY, ANALYTICAL; ENVIRONMENTAL SCIENCES; PHYSICS, ATOMIC
Descriptor Codes: 0486; 0768; 0748

Simultaneous laser-excited fluorescence and absorption measurements were performed and the results have revealed that any interference caused by easily ionized elements does not originate from variations in analyte emission (quantum) efficiency.

A closely related area, the roles of wet and dry aerosols in the matrix interference are clarified through spatially resolved imaging of the plasma by a charged coupled device camera.

To eliminate matrix interference effects practically, various methods have been developed based on the above studies. The use of column pre-concentration with flow injection analysis has been found to provide a simple solution for reducing interference effects and increasing sensitivity of elemental analysis.

A novel mini-spray chamber was invented. The new vertical rotary spray chamber combines gravitational, centrifugal, turbulent, and impact droplet segregation mechanisms to achieve a higher efficiency of small-droplet formation in a nebulized sample spray. As a result, it offers also higher sample-transport efficiency, lower memory effects, and improved analytical figures of merit over existing **devices**. This new **device** was employed with flow injection analysis to simulate an **interface** for **coupling** high performance liquid chromatography (HPLC) to a microwave plasma for chromatographic **detection**. The **detection** limits for common metallic **elements** are in the **range** of 5-50μg/mL, and are degraded only twofold when the elements are presented in an organic solvent such as ethanol or methanol.

Other sample-introduction schemes have also been investigated to improve sample-introduction technology. The direct coupling of hydride-generation techniques to the helium microwave plasma torch was evaluated for the determination of arsenic, antimony and tin by atomic emission spectrometry. A manually controlled peristaltic pump was modified for computer control and continuous flow injection was evaluated for standard calibration and trace elemental analysis.

The present work evaluates the coupling of a novel microwave plasma torch with a quadruple mass spectrometer for the detection of ionic species from different nonmetals. Initial work performed with such a combination is demonstrated to be not only practicable but also promising. Detection limits for the halogens (F, Cl, Br, I) and S are in

the range between 10 ng/mL and 1μg/mL. Further improvements have been realized through the use of chemical-vapor generation and by optimization of the plasma and the mass spectrometer. (Abstract shortened by UMI.)

18/5/6 (Item 1 from file: 2)
DIALOG(R)File 2: INSPEC

07454174
Title: ASOC^{TM}-a manufacturing integrated optics technology
Author(s): Asghari, M.; Dawnay, E.J.C.
Author Affiliation: Bookhara Technol. Ltd., Abingdon, UK
Journal: Proceedings of the SPIE - The International Society for Optical Engineering , vol.3620 , pp.252-62
Publisher: SPIE-Int. Soc. Opt. Eng
Country of Publication: USA
Publication Date: 1999
Conference Title: Integrated Optics Devices III
Conference Date: 25-27 Jan. 1999
Conference Location: San Jose, CA, USA
Conference Sponsor: SPIE
ISSN: 0277-786X
SICI: 0277-786X(1999)3620L.252:AMIO;1-A
CODEN: PSISDG
U.S. Copyright Clearance Center Code: 0277-786X/99/$10.00
Language: English
Document Type: Conference Paper in Journal (PA)
Treatment: Experimental (X)
Abstract: ASOC^{TM} technology refers to the fabrication of integrated optics components in silicon-on-insulator material. The technology is based on the formation of single-mode rib waveguides offering excellent properties and numerous advantages for many applications at 1.3 and 1.55 mum wavelength. The advantages offered by ASOC^{TM} technology include low-loss, low birefringence waveguides, well established mass production capability, and the availability of both hybrid and monolithic techniques for active element integration. The overall enabling technology lies in the successful development of a set of waveguide-based functional elements that can be assembled into practical integrated optics **devices**. The most fundamental waveguide **elements** include straight waveguides, bends, **couplers** and fiber-waveguide **interfaces**. Additional **elements** such as doped structures and waveguide gratings are often required. Discrete lasers and photo-**detectors** are also incorporated into ASOC^{TM} technology to provide hybrid **devices** with a wide **range** of functionality. The technology is currently employed to manufacture devices for a range of applications in telecommunications. These include

a single-fiber bi-directional optical transceiver, a DWDM laser and an optical attenuator (*12 refs.*)
Subfile(s): A (Physics); B (Electrical & Electronic Engineering)
Descriptors: birefringence; integrated optics; integrated optoelectronics; optical communication equipment; optical fabrication; rib waveguides; silicon; wavelength division multiplexing
Identifiers: manufacturing integrated optics technology; fabrication; integrated optics components; Si-on-insulator material; single-mode rib waveguides; wavelength; low-loss low birefringence waveguides; mass production capability; monolithic techniques; active element integration; hybrid techniques; waveguide-based functional elements; practical integrated optics devices; straight waveguides; fundamental waveguide elements; bends; couplers; fiber-waveguide interfaces; doped structures; waveguide gratings; photo-detectors; lasers; hybrid devices; telecommunications; single-fiber bi-directional optical transceiver; DWDM laser; optical attenuator; 1.3 mum ; 1.55 mum; Si
Classification Codes: A4282 (Integrated optics); A4280S (Optical communication devices); A4285D (Optical fabrication, surface grinding); B4140 (Integrated optics); B4270 (Integrated optoelectronics); B6260M (Multiplexing and switching in optical communication); B6260C (Optical communication equipment)
Chemical Indexing:
Si/el
Numerical Indexing: wavelength: 1.3E-06 m; wavelength: 1.55E-06 m
INSPEC Update Issue: 2000-001

05743563
Title: Optical links for cryogenic focal plane array readout
Author(s): Johnston, A.R.; Liu, D.T.H.; Forouhar, S.; Lutes, G.F.; Maserjian, J.; Fossum, E.R.
Author Affiliation: Jet Propulsion Lab., California Inst. of Technol., Pasadena, CA, USA
Journal: Optical Engineering , vol.33 , no.6 , pp.2013-19
Country of Publication: USA
Publication Date: June 1994
ISSN: 0091-3286
CODEN: OPEGAR
U.S. Copyright Clearance Center Code: 0091-3286/94/$6.00
Language: English
Document Type: Journal Paper (JP)

Treatment: Practical (P); Experimental (X)
Abstract: An optical link can provide an interface channel for a focal plane array that is immune to electro-magnetic interference (EMI) and can lower the heat load on the dewar. Our approach involves the use of fiber optics and an on-focal-plane optical modulator to provide an interface to the focal plane array (FPA). The FPA drives the modulator with an electrical signal. We evaluated specially fabricated AlGaAs/GaAs multiple-quantum-well (MQW) optical modulators, operating near 840 nm, for analog modulation, and we have used the results to **calculate** the performance of an optical **interface link** using experimentally **determined device** parameters. **Link** noise and dynamic **range** for an analog link were estimated from a separate experiment using pigtailed fiber components. The performance of the MQW modulator system is compared to alternative strategies. Significant improvement in performance in comparison to conventional electronic interfaces appears to be possible (*18 refs.*)
Subfile(s): B (Electrical & Electronic Engineering)
Descriptors: aluminium compounds; electro-optical devices; gallium arsenide; III-V semiconductors; image sensors; optical fibres; optical links; optical modulation; semiconductor quantum wells
Identifiers: cryogenic focal plane array readout; interface channel; electro-magnetic interference; heat load; dewar; fiber optics; on-focal-plane optical modulator; electrical signal; AlGaAs/GaAs multiple-quantum-well optical modulators; analog modulation; optical interface link; link noise; dynamic range; analog link; pigtailed fiber components; performance; AlGaAs-GaAs
Classification Codes: B4150 (Electro-optical devices); B4125 (Fibre optics); B7230G (Image sensors)
Chemical Indexing:
AlGaAs-GaAs/int - AlGaAs/int - GaAs/int - Al/int - As/int - Ga/int - AlGaAs/ss - Al/ss - As/ss - Ga/ss - GaAs/bin - As/bin - Ga/bin
INSPEC Update Issue: 1994-033

05024518
Title: Trends in measurements in the mm-wave range
Author(s): Groll, H.P.
Author Affiliation: Tech. Univ. Munchen, Lehrstuhl fur Mikrowellentech., Germany
Inclusive Page Numbers: 99-107
Publisher: Microwave Exhibitions & Publishers, Tunbridge Wells
Country of Publication: UK
Publication Date: 1991

Conference Title: Conference Proceedings. 21st European Microwave Conference, Microwave '91
Conference Date: 9-12 Sept. 1991
Conference Location: Stuttgart, Germany
ISBN: 0 946821 37 2
Number of Pages: 2 vol. (xxv+v+1579)
Language: English
Document Type: Conference Paper (PA)
Treatment: Experimental (X)
Abstract: The tendency to expand the frequency range of measurement equipment can be observed for coaxial systems, which measure in a continuous sweep the whole range up to 50 or 60 GHz. This is typical for automatic vector network analyzers. Also the new spectrum analyzers enlarge the unambiguous frequency range using new YIG preselection filters. Stand alone network analyzers like sixports or homodyne NWAs still have the usual waveguide bandwidth. An example of own development is described. Finally the further increase of the upper frequency limit for coaxial systems by the development of a 1 mm connector is discussed (*33 refs.*)
Subfile(s): B (Electrical & Electronic Engineering)
Descriptors: microwave measurement; network analysers; spectral analysers
Identifiers: six-**port** analyzers; **connector**; frequency **range**; **measurement equipment**; coaxial systems; continuous sweep; automatic vector network analyzers; spectrum analyzers; YIG preselection filters; homodyne NWAs; waveguide bandwidth; upper frequency limit
Classification Codes: B7310N (Microwave measurement techniques); B7210X (Other instrumentation and measurement systems)
INSPEC Update Issue: 1991-024

18/5/9 (Item 4 from file: 2)
DIALOG(R)File 2: INSPEC

04574481
Title: Computer-controlled apparatus for the measurement of the spectral attenuation of fibres
Author(s): Helsztynski, J.; Lewandowski, L.; Jedrzejewski, K.
Author Affiliation: Inst. of Electron. Fundamentals, Warsaw Univ. of Technol., Poland
Journal: International Journal of Optoelectronics , vol.4 , no.3-4 , pp.257-9
Country of Publication: UK
Publication Date: May-Aug. 1989
ISSN: 0952-5432
CODEN: IJOOEV
Language: English
Document Type: Journal Paper (JP)

Treatment: Practical (P); Experimental (X)
Abstract: The cut-back method is used for the automated measurement of the spectral attenuation of multimode and single-mode fibres. The spectral curves are run and stored by a Commodore C-64 computer via an IEC-625 interface bus. The measurements cover the wavelength range 680-1600 nm with wavelength steps of 1, 5 or 10 nm, the attenuation range amounts to 30 dB for multimode and 25 dB for single-mode fibres with +/-0.1 dB reproducibility. Cut-off wavelength, coupler spectral response and insertion loss can also be measured by this system (*0 refs.*)
Subfile(s): A (Physics); B (Electrical & Electronic Engineering); C (Computing & Control Engineering)
Descriptors: automatic test equipment; light absorption; microcomputer applications ; optical fibres; optical losses
Identifiers: multimode fibres; cut-off wavelength; computer controlled apparatus; spectral attenuation; cut-back method; automated **measurement**; single-mode fibres; spectral curves; Commodore C-64 **computer**; IEC-625 **interface** bus; wavelength **range**; wavelength steps; **coupler** spectral response; insertion loss; 680 to 1600 nm; 30 dB; 25 dB
Classification Codes: A4281C (Optical fibre testing and measurement of fibre parameters); A4281D (Optical propagation, dispersion and attenuation in fibres); A0760 (Optical instruments and techniques); B4125 (Fibre optics); B7320P (Optical variables measurement); C3380B (Control of electronic instruments); C7420 (Control engineering computing)
Numerical Indexing: wavelength: 6.8E-07 to 1.6E-06 m; loss: 3.0E+01 dB; loss: 2.5E+01 dB
INSPEC Update Issue: 1990-007

01012698
Title: A small computer for communication systems
Author(s): Diggelmann, H.
Journal: Bulletin de l'Association Suisse des Electriciens (Organe Commun de l'Association Suisse des Electriciens (ASE) et de l'Union des Centrales Suisses d'Electricite (UCS)) , vol.59 , no.18 , pp.843-6
Country of Publication: Switzerland
Publication Date: 31 Aug. 1968
ISSN: 0036-1321
CODEN: BUSEAH
Language: German

Document Type: Journal Paper (JP)
Abstract: Program-controlled information-processing requires a reliable **calculating unit**, having a wide **range** of instructions, and capable of operating on single bits as well as multidigit numbers. A small **computer** (`ELSTOR') is described, which contains calculating and storage sections and **interfaces** for **connecting** to telephone or radio **links**
Subfile(s): C (Computing & Control Engineering)
Descriptors: communications applications of computers; special purpose computers
Classification Codes: C5420 (Mainframes and minicomputers); C7410B (Power engineering computing)
INSPEC Update Issue: 1969-001

18/5/11 (Item 1 from file: 6)
DIALOG(R)File 6: NTIS

1617445 **NTIS Accession Number:** N92-10292/0
BIRD: A General Interface for Sparse Distributed Memory Simulators

Rogers, D.
Research Inst. for Advanced Computer Science, Moffett Field, CA.
Corporate Source Codes: 095294000; RR454545
Sponsor: National Aeronautics and Space Administration, Washington, DC.
Report Number: NAS 1.26:188858; RIACS-TR-90-3; NASA-CR-188858
Jan 90 100p
Language: English
Journal Announcement: GRAI9204; STAR3001
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A05/MF A02
Country of Publication: United States
Contract Number: NCC2-387
Kanerva's sparse distributed memory (SDM) has now been implemented for at least six different **computers**, including SUN3 **workstations**, the Apple Macintosh, and the **Connection Machine**. A common **interface** for input of commands would both aid **testing** of programs on a broad **range** of **computer** architectures and assist users in transferring results from research environments to applications. A common interface also allows secondary programs to generate command sequences for a sparse distributed memory, which may then be executed on the appropriate hardware. The BIRD program is an attempt to create such an interface. Simplifying access to different simulators should assist developers in finding appropriate uses for SDM.
Descriptors: *Architecture (Computers); *Computer programs; *Interprocessor communication; *Massively parallel processors; *Memory (Computers); *Simulators;

Computer systems design; Computer systems performance; Sequencing; Simplification; Workstations
Identifiers: NTISNASA
Section Headings: 62A (Computers, Control, and Information Theory--Computer Hardware); 62B (Computers, Control, and Information Theory--Computer Software)

Dialog eLink: Check for PDF Download Availability and Purchase
18/5/12 (Item 2 from file: 6)
DIALOG(R)File 6: NTIS

0750346 **NTIS Accession Number:** AD-A063 904/7/XAB
Expanded WCCM Ranging Capability
(Final technical rept. 26 Sep 77-31 May 78)
Gadeken, L. L. ; Klingsbail, K. N. ; Wiitanen, P. H.
Pattern Analysis and Recognition Corp., Rome, NY.
Corporate Source Codes: 390101
Sponsor: Rome Air Development Center, Griffiss AFB, NY.
Report Number: PAR-78-19; RADC-TR-78-189
Aug 78 126p
Language: English
Journal Announcement: GRAI7912
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A07/MF A01
Contract Number: F30602-77-C-0227; 5556; 12
This report describes the software programs developed by Pattern Analysis and Recognition Corp. for implementing the Wideband Command and Control Modems Automated Test System (WCCM ATS) as an operational data link system in support of the Multilateration Radar Surveillance and Strike System (MRS3) program at RADC. Section one outlines the objectives and characteristics of the test system. The second section provides a functional description of the software while section three is a user's handbook. Section four provides background material on the detailed system operation and software assembly. Appendix A contains an explanation of the algorithms used in the software routines and Appendix B flowcharts these routines. (Author)
Descriptors: *Command and control systems; *Data **links**; **Computer** programs; Modems; Man **computer interface**; Display systems; Radar targets; Position **finding**; Surface targets; Moving targets; **Range finding**; Broadband; **Computer** programming; Real time; Algorithms; Data processing equipment
Identifiers: Multilateration radar surveillance and strike systems; NTISDODXA; NTISDODAF
Section Headings: 45C (Communication--Common Carrier and Satellite)

Dialog eLink: Check for PDF Download Availability and Purchase
18/5/13 (Item 3 from file: 6)
DIALOG(R)File 6: NTIS

0422927 **NTIS Accession Number:** COM-73-50972/1/XAB
Application of a Non-Ideal Sliding Short to Two-Port Loss Measurement
(Technical note)
Weidman, M. P. ; Engen, G. F.
National Bureau of Standards, Boulder, Colo. Electromagnetics Div.
Report Number: NBS-TN-644
Oct 73 33p
Journal Announcement: GRAI7406
Paper copy available from GPO $0.50 as C13.46:644. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: MF A01
Contract Number: NBS-2721393
A detailed, applications-oriented, description of a method for measuring two-port losses is given. The technique involved uses a non-ideal sliding short circuit and a tuned four-arm reflectometer. Most, if not all, of the components used in this technique can be put together using commercially available items. It is the intent of this discussion to provide enough detail and explanation so that a technician with some working knowledge of microwave measurements can set up and make loss **measurements**. The reference made to two-**ports** implies a broad **range** of **devices** from a simple flange or **connector** to waveguide coaxial adaptors and even more elaborate configurations with a definable input and output connection. (Author)
Descriptors: *Waveguide couplers; Measurement; Losses; Reflectometers
Identifiers: NTISNBS
Section Headings: 49F (Electrotechnology--Power and Signal Transmission Devices)

Dialog eLink: USPTO Full Text Retrieval Options
18/5/14 (Item 1 from file: 34)
DIALOG(R)File 34: SciSearch(R) Cited Ref Sci

07839696 **Genuine Article#:** 214DN **Number of References:** 19
Title: ConFlo III - An interface for high precision delta C-13 and delta N-15 analysis with an extended dynamic range
Author: Werner RA (REPRINT) ; Bruch BA; Brand WA
Corporate Source: MAX PLANCK INST BIOGEOCHEM,POB 10 01 64/D-07701

JENA//GERMANY/ (REPRINT)
Journal: RAPID COMMUNICATIONS IN MASS SPECTROMETRY , 1999 , V 13 , N13 , P 1237-1241
ISSN: 0951-4198 **Publication Date:** 19990000
Publisher: JOHN WILEY & SONS LTD , BAFFINS LANE CHICHESTER, W SUSSEX PO19 1UD, ENGLAND
Language: English **Document Type:** ARTICLE
Geographic Location: GERMANY
Subfile: CC PHYS--Current Contents, Physical, Chemical & Earth Sciences;
Journal Subject Category: SPECTROSCOPY; CHEMISTRY, ANALYTICAL
Abstract: A newly developed **interface coupling** a CHN combustion **device** (elemental analyser 'EA') to an isotope ratio mass spectrometer is described and **evaluated**. The purpose of the **device** is to extend the dynamic **range** of delta(13)C and delta(15)N analysis from less than 2 orders of magnitude to more than 3 orders of magnitude. Carbon isotope ratio measurements of atropine as a model compound have been performed analysing between 1 mu g to 5 mg C with acceptable to excellent precision (0.6 to 0.06 parts per thousand, delta-notation). The correction due to the blank signal is critical for sample amounts smaller than 4 mu g C. The maximum sample weight is determined by the combustion capacity of the EA, Larger sample amounts are measured using dilution of a small part of the EA effluent with helium. The dilution mechanism works virtually free of isotope fractionation, Copyright (C) 1999 John Wiley & Sons, Ltd.
Identifiers: KeyWord Plus(R): RATIO MASS-SPECTROMETER; ELEMENTAL ANALYZER; ONLINE DETERMINATION; ORGANIC-SUBSTANCES; ISOTOPE; NITROGEN; MATTER; WATER; O-18
Cited References:
DE 4333208, 1993, BRAND W
*MICR LTD, 1996, 311LA TN MICR LTD
AVAK H, 1996, V32, P285, ISOT ENVIRON HEALT S
BRAND WA, 1996, V31, P225, J MASS SPECTROM
BRAND WA, 1995, P73, NUCL TECHNIQUES SOIL
DENNIS MJ, 1998, V47, P95, J ANAL APPL PYROL
FARQUHAR GD, 1997, V11, P1554, RAPID COMMUN MASS SP
FRY B, 1992, V64, P288, ANAL CHEM
FRY B, 1996, V10, P953, RAPID COMMUN MASS SP
GIESEMANN A, 1994, V66, P2816, ANAL CHEM
HABFAST K, 1997, V145, P11, CHEM ANAL SERIES MON
KELLY SD, 1998, V33, P735, J MASS SPECTROM
KOZIET J, 1997, V32, P103, J MASS SPECTROM
MERRITT DA, 1994, V21, P573, ORG GEOCHEM
PICHLMAYER F, 1988, V331, P196, FRESEN Z ANAL CHEM
PRESTON T, 1983, V108, P971, ANALYST
PRESTON T, 1985, V12, P510, BIOMED MASS SPECTROM
SANTROCK J, 1987, V59, P119, ANAL CHEM
WERNER RA, 1996, V319, P159, ANAL CHIM ACTA

18/5/15 (Item 1 from file: 56)
DIALOG(R)File 56: Computer and Information Systems Abstracts

0000554769 IP Accession No: 200610-33-124955
Interactive distance learning over intranets

Maly, K; Abdel-Wahab, H; Overstreet, C M; Wild, J C; Gupta, A K; Youssef, A ; Stoica, E; Al-Shaer, E S
IEEE Internet Computing , v 1 , n 1 , p 60-71 , Jan.-Feb. 1997
Publication Date: 1997
Publisher: Institute of Electrical and Electronics Engineers, Inc. , 445 Hoes Ln , Piscataway , NJ , 08854-1331
Country Of Publication: USA
Publisher Url: http://ieee.org
Publisher Email: inspec@ieee.org

Document Type: Journal Article
Record Type: Abstract
Language: English
ISSN: 1089-7801
DOI: 10.1109/4236.585174
File Segment: Computer & Information Systems Abstracts

Abstract:
Many distance learning systems claim to be interactive, but few can offer two-way video, on-the-fly interaction and application sharing. To address these limitations, our research group built the Interactive Remote Instruction (IRI) system, which links sites over a high-speed intranet, allowing students at geographically dispersed satellite campuses and community colleges to take a class together. Access from home PCs through a Windows NT port is planned but not yet available. IRI improves on the Old Dominion University's Teletechnet system in five areas: video resolution, asymmetrical video presence, interaction, teacher support and computer simulations

Descriptors: Interactive; Intranets; **Distance learning**; Internet; **Distance** education; Teachers; **Computer** simulation; Dispersion ; **Links**; Asymmetry; New technology; High speed; Communities; Satellites; Colleges; Computation; **Ports**; Students
Subj Catg: 33, Internet and Intranet Applications

12/3,K/1 (Item 1 from file: 275)
DIALOG(R)File 275: Gale Group Computer DB(TM)

02746475 **Supplier Number:** 109123650 **(Use Format 7 Or 9 For** FULL TEXT)
Zyxel Eases Hot-Spot Setup.(ZyAir B-4000 Hot Spot Gateway)(Product/Service Evaluation)

Ohlhorst, Frank J.
Computer Reseller News , 16
Oct 20 , 2003
Document Type: Product/Service Evaluation
ISSN: 0893-8377
Language: English **Record Type:** Fulltext
Word Count: 366 **Line Count:** 00031
...The B-4000 is a hot-spot-in-a-box, consisting of an 802.11b **router** with integrated four-**port** 10/100 **switch** and a dedicated thermal receipt printer.

Solution providers will find setup of the unit easy...

...amount of assigned access time. Price, time limits and other elements are all configurable.

CRN **Test** Center engineers **found** that the **unit** has good **range** and offers wireless speeds equivalent to most 802.11b solutions on the market. The four-**port switch** allows the **unit** to do double duty as the primary broadband **connection** device for an in-house network.

For sites that choose not to use the included...

12/3,K/2 (Item 2 from file: 275)
DIALOG(R)File 275: Gale Group Computer DB(TM)

02112618 **Supplier Number:** 19909194 **(Use Format 7 Or 9 For** FULL TEXT)
Routing the Internet. (ISP connections) (Internet/Web/Online Service Information)

Pompili, Toni
PC Magazine , v16 , n19 , p291(2)
Nov 4 , 1997
ISSN: 0888-8507
Language: English **Record Type:** Fulltext; Abstract
Word Count: 1829 **Line Count:** 00139

...for thin coax or even an AUI for a transceiver. There's also a serial **port** for configuring the **router** with a **terminal**. The same **port** can be used to **attach** a modem, letting your router double as both a network router and a remote-access...

...work with their service for you.

As part of the setup, you'll need to **know** the **range** of **workstation** addresses that will be using the router at your branch office. These addresses are provided...

12/3,K/3 (Item 1 from file: 636)
DIALOG(R)File 636: Gale Group Newsletter DB(TM)

05866185 **Supplier Number:** 122030243 **(USE FORMAT 7 FOR FULLTEXT)**

IMB Enterprises, Inc. announces immediate availability of Aboundi (tm) WiFi Ethernet (IEEE 802.11b) ARS1000 Serial Bridge.
M2 Presswire , p NA
Sept 14 , 2004
Language: English **Record Type:** Fulltext
Document Type: Newswire ; Trade
Word Count: 502
-
...a hardware computing device dedicated to networked systems requirements. The dual ported (two DB9 RS232 **Ports**) Aboundi (tm) ARS1000 Serial **Bridge** enables WiFi Ethernet communications for a wide **range** of **computing devices** otherwise restricted to serial, RS232 data communications. The two DB9 ports support either a Data Communications **Equipment** (DCE) or Data **Terminal Equipment** (DTE) serial **interface**, thereby making for the potential of a failure-proof **device connection** scenario for RS232. With the two **ports**, the customer has the added option of using both ports to support simultaneous communications to...

12/3,K/4 (Item 2 from file: 636)
DIALOG(R)File 636: Gale Group Newsletter DB(TM)

04829957 **Supplier Number:** 64509292 **(USE FORMAT 7 FOR FULLTEXT)**

Phoenix stresses gigabit.
M2 Presswire , p NA
July 12 , 1999
Language: English **Record Type:** Fulltext
Document Type: Newswire ; Trade
Word Count: 1374
-
...1600, providing a comprehensive testing tool for certification, performance and stress testing of Ethernet switches, **routers** and associated products. The multi-**port** system holds up to two of IXIAs wide range of load modules for Gigabit and 10/100 Mbps environments and will support future WAN **interfaces**. Measuring just 10"x4"xl6", the **unit** is ready for **connection** to the network 'out-of-the-box' via its built-in 10/100Mbps Ethernet network...port traffic generatorlanalyser. With the addition of the LM100FX, LM100MII and LM100RMII modules, the IXIA **range** of **test equipment** now provides the largest selection of 10/100Mbs interfaces on the market, all offering the...

12/3,K/5 (Item 1 from file: 16)
DIALOG(R)File 16: Gale Group PROMT(R)

06756643 **Supplier Number:** 56754587 **(USE FORMAT 7 FOR FULLTEXT)**

Use These Design And Test Methods To Create Robust USB Devices.
DYMENT, DOUG
Electronic Design , v 47 , n 21 , p 80
Oct 18 , 1999
Language: English **Record Type:** Fulltext
Document Type: Magazine/Journal ; Trade
Word Count: 2127
-
...can be attached or detached at any time, device enumeration is a dynamic, ongoing activity. **Hubs** continually report per-**port** status to the host and identify ports used to **attach** new USB **devices**. The host enables such **ports**, determines if the newly **attached devices** are hubs or **devices**, and **assigns** them unique USB addresses. Then, the host establishes a unique control pipe for each new...

...with the commitment for flawless, user-transparent operation, requires that every new device design be **tested** across the entire dynamic **range** of possibilities.

Every active USB **device** must consistently provide robust, error-free operation despite a variety of potential problems. These can...

12/3,K/6 (Item 2 from file: 16)
DIALOG(R)File 16: Gale Group PROMT(R)

06061400 **Supplier Number:** 53444227 **(USE FORMAT 7 FOR FULLTEXT)**

USB-Ready For Prime Time? -- Finally, USB has arrived. Win98's built-in USB support makes it easy to hook up the newest peripherals-but is USB all it's cracked up to be?(Industry Trend or Event)
Linderholm, Owen
Windows Magazine , p 154(1)
Jan 1 , 1999
Language: English **Record Type:** Fulltext
Document Type: Magazine/Journal ; General Trade
Word Count: 3074
-
...replace serial and parallel interfaces, in a few years you may be hard pressed to **find** new serial or parallel peripherals.

USB: Real-World **Tests**

I **tested** a **range** of USB **devices**, including the Storm PageScan USB (see Reviews, November 1998), Kodak Digital Science DVC323 (see Reviews, July 1998), Entrega 4 **Port** USB **Hub** (see What's Hot, November 1998), ADS USB Hub, Vista Imaging ViCAM PC Digital Camera...
...DIAGNOSE directory on the Windows 98 CD-ROM. This applet provides detailed information about USB **ports** and **attached** USB **devices**.

I got all of these **devices** running simultaneously with the exception of the two digital video cameras, because the apps for...

12/3,K/7 (Item 1 from file: 148)
DIALOG(R)File 148: Gale Group Trade & Industry DB

15169173 **Supplier Number:** 93534540 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Fifty years and still going strong. (The Magazine Survivors).(50 plus year old electronics companies)

Electronic Design , 50 , 22 , 101(4)
Oct 21 , 2002
ISSN: 0013-4872
Language: English
Record Type: Fulltext
Word Count: 2318 **Line Count:** 00206
...semiconductor, computer, and consumer electronic products.
1946 Switchcraft Inc.
Created as a company to manufacture **jacks**, **plugs**, and **switches**, Switchcraft manufactures **components** that include **jacks**, **connectors**, power cords, **switches**, and molded cable assemblies.
1946 Tektronix Inc.
From the start, Tektronix has designed and manufactured **test** and **measurement equipment**. Although it provides a broad **range** of instruments, the company has always been a leader in oscilloscope technology. Today, Tektronix's...

12/3,K/8 (Item 1 from file: 15)
DIALOG(R)File 15: ABI/Inform(R)

05890692 220469711
The magazine--survivors: Fifty years and still going strong

Maliniak, Lisa
Electronic Design v50n22 pp: 101
Oct 21, 2002
ISSN: 0013-4872 **Journal Code:** STEL
Word Count: 2104
Text:
...in 1958 after using it as a product brand for three years. It manufactures semiconductor, **computer**, and consumer electronic products.

1946

Created as a company to manufacture **jacks**, **plugs**, and **switches**, Switchcraft manufactures **components** that include **jacks**, **connectors**, power cords, **switches**, and molded cable assemblies.

Tektronix Inc.

From the start, Tektronix has designed and manufactured **test** and **measurement equipment**. Although it provides a broad **range** of instruments, the company has always been a leader in oscilloscope technology. Today, Tektronix's...

12/3,K/9 (Item 2 from file: 15)
DIALOG(R)File 15: ABI/Inform(R)

02652297 435033951
ZyXel eases hot-spot setup

Ohlhorst, Frank J
CRN n1067 pp: 16
Oct 20, 2003
Journal Code: CRN
Word Count: 325
Text:
...The B-4000 is a hot-spot-in-a-box, consisting of an 802.11b **router** with integrated four-**port** 10/100 **switch** and a dedicated thermal receipt printer.

Solution providers will find setup of the unit easy...

...amount of assigned access time. Price, time limits and other elements are all configurable.

CRN **Test** Center engineers **found** that the **unit** has good **range** and offers wireless speeds equivalent to most 802.11b solutions on the market. The four-**port switch** allows the **unit** to do double duty as the primary broadband **connection** device for an in-house network.

For sites that choose not to use the included...

Dialog eLink: USP10 Full Text Retrieval Options

12/3,K/10 (Item 3 from file: 15)
DIALOG(R)File 15: ABI/Inform(R)

01319728 99-69124
Intel, Philips get on the Universal Serial Bus

Santoni, Andy
InfoWorld v18n45 pp: 14
Nov 4, 1996
ISSN: 0199-6649 **Journal Code:** IFW
Word Count: 259
Text:
...to the list of semiconductor device suppliers hopping on board with hub controllers that will **find** their way into a wide **range** of **PC peripherals** next year.

Intel, developer of the USB standard, introduced last week a USB peripheral hub...

...and monitors to act as hubs for as many as 127 USB devices.

The new **hub** controllers also allow users to **plug** in a modem, for example, without rebooting the **computer** and without access to an internal or rear-panel **connector**.

"The 8x930Hx hub controller [from Intel] enables **PC** users to have more **plug**-in sockets for their peripheral devices," said Lee Davidson, general manager of Intel's USB...

12/3,K/11 (Item 1 from file: 647)
DIALOG(R)File 647: UBM Computer Fulltext

01268057 **CMP Accession Number:** CRN20031020S0009
Zyxel Eases Hot-Spot Setup

Frank J. Ohlhorst
CRN , 2003 , n 1067 , PG16

Publication Date: 031020
Journal Code: CRN **Language:** English
Record Type: Fulltext
Section Heading: News
Word Count: 332
Text:
...The B-4000 is a hot-spot-in-a- box, consisting of an 802.11b **router** with integrated four-**port** 10/100 **switch** and a dedicated thermal receipt printer.

Solution providers will find setup of the unit easy...

...amount of assigned access time. Price, time limits and other elements are all configurable.

CRN **Test** Center engineers **found** that the **unit** has good **range** and offers wireless speeds equivalent to most 802.11b solutions on the market. The four-**port switch** allows the **unit** to do double duty as the primary broadband **connection** device for an in-house network.

For sites that choose not to use the included...

12/3,K/12 (Item 2 from file: 647)
DIALOG(R)File 647: UBM Computer Fulltext

01181811 **CMP Accession Number:** WIN19990101S0063
USB-Ready For Prime Time? - Finally, USB has arrived. Win98's built-in USB support makes it easy to hook up the newest peripherals-but is USB all it's cracked up to be?

Owen Linderholm, Senior Technology Editor
WINDOWS MAGAZINE , 1999 , n 1001 , PG154
Publication Date: 990101
Journal Code: WIN **Language:** English
Record Type: Fulltext
Section Heading: Features
Word Count: 3088
Text:
...replace serial and parallel interfaces, in a few years you may be hard pressed to **find** new serial or parallel peripherals.

USB: Real-World **Tests**

I **tested** a **range** of USB **devices**, including the Storm PageScan USB (see Reviews, November 1998), Kodak Digital Science DVC323 (see Reviews , July 1998), Entrega 4 **Port** USB **Hub** (see What's Hot, November 1998), ADS USB Hub, Vista Imaging ViCAM PC Digital Camera...

...DIAGNOSE directory on the Windows 98 CD- ROM. This applet provides detailed information about USB **ports** and **attached** USB **devices**.

I got all of these **devices** running simultaneously with the exception of the two digital video cameras, because the apps for...